(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 23 June 2005 (23.06.2005)

PCT

(10) International Publication Number WO 2005/057563 A1

(51) International Patent Classification7: 7/0037

G11B 7/09,

(21) International Application Number:

PCT/IB2004/052606

(22) International Filing Date:

30 November 2004 (30.11.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 03104587.5

8 December 2003 (08.12.2003)

- (71) Applicant (for all designated States except US): KONIN-KLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): GOOSSENS, Hendrik, J. [NL/CN]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). ODGAARD, Peter, F. [DK/DK]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

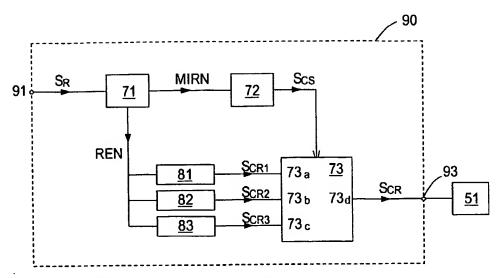
- (74) Agents: UITTENBOGAARD, Frank et al.; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

[Continued on next page]

(54) Title: OPTICAL DISC SERVO THAT IS ROBUST FOR DEFECTS



(57) Abstract: A method is described for discriminating different types of disc defects in an optical disc drive apparatus (1) of a type comprising: scanning means (30) for scanning a record track of an optical disc (2) and for generating a read signal (SR), the scanning means (30) comprising at least one displaceable read/write element (34); actuator means (50) for controlling the positioning of said read/write element; a control circuit (90) for generating at least one actuator control signal (S_{CR}, S_{CF}, S_{CT}) on the basis of at least one signal component (REN, FEN) of said read signal, the control circuit having a plurality of predetermined controller settings; the method comprising the steps of: deriving from said read signal at least one signal component (MIRN; performing a frequency analysis of said signal component; selectively setting one of said plurality of predetermined controller settings on the basis of the results of said frequency analysis.

WO 2005/057563 A1



 before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.